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Applicant(s): Sadao Haga, et al.

1765

Docket No.

56296 (71360)

Serial No.

09/916,381

Filing Date

July 27, 2001

Examiner

Umez Eronini, Lynette T.

Group Art Unit

1765

OVER
FEB 23 2004
PATENT & TRADEMARK OFFICE

MIXED ACID SOLUTION IN ETCHING PROCESS, PROCESS FOR PRODUCING THE SAME, ETCHING PROCESS USING THE SAME AND PROCESS FOR PRODUCING SEMICONDUCTOR DEVICE

I hereby certify that the following correspondence:

Information Disclosure Statement (along with related documents)

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

February 20, 2004

(Date)

Nicole M. McKinnon

(Typed or Printed Name of Person Mailing Correspondence)

Nicole McKinnon

(Signature of Person Mailing Correspondence)

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Attorney Docket No.: 56296 (71360)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sadao Haga, et al.

U.S.S.N.: 09/916,381

Filed: July 27, 2001

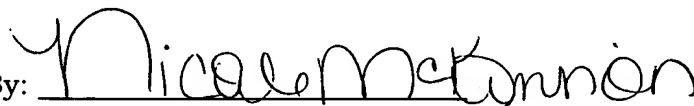
Group Art Unit: 1765

Examiner: Umez Eronini, Lynette T.

For: MIXED ACID SOLUTION IN ETCHING PROCESS, PROCESS FOR PRODUCING
THE SAME, ETCHING PROCESS USING THE SAME AND PROCESS FOR
PRODUCING SEMICONDUCTOR DEVICE

.....
CERTIFICATE OF EXPRESS MAILING (Label No.: EV 438963441 US)

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. section 1.10, on February 20, 2004 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By: 
Nicole M. McKinnon

.....
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications or other information submitted for consideration by the Office are listed on Form PTO-1449, attached hereto.

II. COPIES

- a. X Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. , filed on . The following references were submitted to, and/or cited by, the Office in the prior application (s) and, therefore, are not required to be provided in this application.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

- a. X Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
- b. X A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
See English Abstracts and partial translations for
References BA-BD.
- c. The following additional information is provided for the Examiner's consideration:

FEES

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)
(check one box)

- a. within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1). No fee or certification is required.
- b. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2). No fee or certification is required.

- c. _____ Before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (4)) after the filing of a request for continued examination. No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. _____ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
or
b. X See the certification below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby states that

- a. X each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
b. _____ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

- c. _____ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

_____ Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.

X No fee is required.

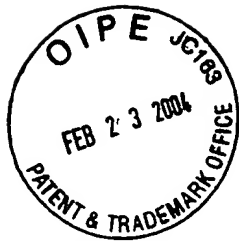
If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule, with a petition if necessary, and charge the appropriate fee to Deposit Account No. **04-1105**.

Respectfully submitted,

Date: February 20, 2004
Customer No. 21874

By:

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	DOCKET NO: 56296 (71360)	SERIAL NO.: 09/916,381
	APPLICANT(S): Sadao Haga, et al.	
	FILING DATE: July 27, 2001	GROUP NO.: 1765

UNITED STATES PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,514,407	05/26/70	Missel	252	79.3	09/28/66

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	BA	6-314684	11/08/94	JAPAN	H01L	21/306	ABSTRACT
	BB	9-266194	10/07/97	JAPAN	H01L	21/306	ABSTRACT
	BC	9-302483	11/25/97	JAPAN	C23F	1/46	ABSTRACT
	BD	11-194120 ✓	07/21/99	JAPAN	G01N	31/12	ABSTRACT
	BE	1 069 598 A1 ✓	01/17/01	EUROPE	H01L	21/00	YES
	BF	0 928 017 A2 ✓	07/07/99	EUROPE	H01L	21/302	YES
	BG	0 548 504 A2 ✓	10/29/92	EUROPE	C01B	33/037	YES

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	CA	European Search Report dated January 21, 2004 ✓
	CB	

EXAMINER:	DATE:
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FORM PTO-1449				DOCKET NO: 56296 (71360)		SERIAL NO.: 09/916,381	
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Sadao Haga, et al.			
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EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	BH	0 758 797 A1 /	02/19/97	EUROPE	H01L	21/321	YES
	BI	WO 96/41687 /	12/27/96	PCT	B08B	7/04	YES
	BJ	2 246 979 /	02/05/75	FRANCE	H01 L	21/306	NO
	BK	24 37 048 /	02/12/76	GERMANY	H01 L	21/306	NO
	BL	DD 247 543 A1 /	07/08/87	GERMANY	WP H01 L	255/564 5	NO
	BM	WO 98/31768 /	07/23/98	PCT	C09K	13/04	YES
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
EXAMINER:					DATE:		